

12-1574

Complete in accordance with instructions on reverse and forward copy:				Form Approved: OMB No. 0648-0025 Expires 12/31/2007			
TO: National Oceanic and Atmospheric Administration Office of Oceanic and Atmospheric Research 1315 East-West Highway SSMC-3 Room 11216 Silver Spring, MD 20910				NOAA FORM 17-4 U.S. DEPARTMENT OF COMMERCE (4-81) NAT'L OCEANIC AND ATMOSPHERIC ADM. INITIAL REPORT ON WEATHER MODIFICATION ACTIVITIES (P.L. 205, 92 ND . CONGRESS)			
1. PROJECT OR ACTIVITY DESIGNATION, IF ANY Central Colorado Mountain River Basin Program				2. DATES OF PROJECT			
3. PURPOSE OF PROJECT OR ACTIVITY Winter snowpack and precipitation augmentation				a. DATE FIRST ACTUAL WEATHER MODIFICATION ACTIVITY IS TO BE UNDERTAKEN 11/01/2012 b. EXPECTED TERMINATION DATE OF WEATHER MODIFICATION ACTIVITIES 03/31/2013			
4. (a) SPONSOR				4. (b) OPERATOR			
NAME See attached pages				NAME L. M. Hjermstad			
AFFILIATION		PHONE NUMBER		AFFILIATION Western Weather Consultants, LLC		PHONE NUMBER (970) 247-8813	
STREET ADDRESS				STREET ADDRESS P. O. Box 58			
CITY		STATE		ZIP CODE		CITY Durango	
						STATE CO	
						ZIP CODE 81302	
5. TARGET AND CONTROL AREAS (See Instructions)							
TARGET AREA				CONTROL AREA			
LOCATION Eastern Central Continental Divide Mtns of Colorado		SIZE OF AREA 8,000 SQ.MI		LOCATION Nth. CO Continental Divide & Sangre de Cristo Mtns		SIZE OF AREA 1,000 SQ.MI.	
6. DESCRIPTION OF WEATHER MODIFICATION APPARATUS, MODIFICATION AGENTS AND THEIR DISPERSAL RATES, THE TECHNIQUES EMPLOYED, ETC. (See Instructions) Apparatus: (29) Twenty nine ground-based cloud nuclei generators. Modification Material: Acetone solution of 4% silver iodide & 1.25% sodium iodide. Rate of dispensing material will range from 3 Gm / Hr to 25 Gm /Hr depending on cloud-base moisture and temperature, cloud-base height and cloud type. Precipitation Measurements: Standard NWS precipitation observations along with NRCS Snotel observations in both seeded and control areas.							
7. LOG BOOKS: Enter name, affiliation, address, and telephone number of responsible individual from whom log books or other records may be obtained.							
NAME Mike Hjermstad AFFILIATION Western Weather Consultants, LLC STREET ADDRESS P. O. Box 58 CITY Durango				STATE CO ZIP CODE 81302			
THIS REPORT IS REQUIRED BY PUBLIC LAW 92-205; 85 STAT 735; 15 U.S.C. 330b. KNOWING AND WILLFUL VIOLATION OF ANY RULE ADOPTED UNDER THE AUTHORITY OF SECTION 2 OF PUBLIC LAW 92-205 SHALL SUBJECT THE PERSON VIOLATING SUCH RULE TO A FINE OF NOT MORE THAN \$10,000, UPON CONVICTION THEREOF.							
8. SAFETY AND ENVIRONMENT <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO </div> <div style="width: 50%;"> Has an Environmental Impact Statement, Federal or State been filed? If yes, please furnish a copy as applicable. Have provisions been made to acquire the latest forecasts, advisories, warnings, etc. of the National Weather Service, Forest Service, or others when issued prior to and during operations? If yes, please specify on a separate sheet. Have any safety procedures (operational constraints, provisions for suspension of operations, monitoring methods, etc.) and any environmental guidelines (related to the possible effects of the operations) been included in the operational plans? If yes, please furnish copies or a description of the specific procedures and guidelines. </div> </div>							
9. OPTIONAL REMARKS (See Instructions. Use Separate Sheet.)							
NAME Mike Hjermstad AFFILIATION Western Weather Consultants, LLC STREET ADDRESS P. O. Box 58 CITY Durango				CERTIFICATION: I certify that the above statements are true, complete and correct to the best of my knowledge and belief.			
SIGNATURE 				OFFICIAL TITLE Assistant Manager			
DATE 10/18/2012		PHONE NUMBER (970) 247-8813		CITY Durango		STATE CO	

NOAA FORM 17-4A (4-8")		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		Form Approved OMB No. 0648-0025 Expires 09/30/2014									
INTERIM ACTIVITY REPORTS AND FINAL REPORT This report is required by Public Law 92-205, 85 Stat. 735, 145 U.S.C. 330b. Knowing and willful violation of any rule adopted under the authority of Section 2 of Public Law 92-205 shall subject the person violating such rule to a fine of not more than \$10,000, upon conviction thereof.													
Complete in accordance with instructions on reverse and forward one copy to: National Oceanic and Atmospheric Administration Office of Oceanic and Atmospheric Research 1315 East-West Highway SSAC-3 Room 11215 Silver Spring, MD 20910				NOAA FILE NUMBER <i>Mountain River Basin</i> 12-1574 <input type="checkbox"/> INTERIM REPORT <input checked="" type="checkbox"/> FINAL REPORT									
				REPORTING PERIOD FROM <i>11-10-12</i> TO <i>4-20-13</i>									
MONTH	(4) NUMBER OF MODIFICATION DAYS	(3) NUMBER OF MODIFICATION DAYS FOR MAJOR PURPOSE			(6) HOURS OF APPARATUS OPERATION BY TYPE		(5) TYPE AND AMOUNT OF AGENT USED						
		INCREASE PRECIPITATION	ALLEVATE		OTHER	AIRBORNE	GROUND	SILVER IODIDE	CARBON DIOXIDE	UREA	SODIUM CHLORIDE	OTHER	
			HAZ	FOG									
JANUARY	7	7					364	4298					
FEBRUARY	17	17					1438	18347					
MARCH	13	13					1132	15303					
APRIL	12	12					466	6888					
MAY													
JUNE													
JULY													
AUGUST													
SEPTEMBER													
OCTOBER													
NOVEMBER	3	3					85	1259					
DECEMBER	19	19					419	5704					
TOTAL	71	71					3904	52294					
TOTALS FOR FINAL REPORT	71	71					3904	52294					
DATE ON WHICH FINAL WEATHER MODIFICATION ACTIVITY OCCURRED (For Final Report only.) <i>4-20-13</i>													
CERTIFICATION: I certify that all statements in this report on this weather modification project are complete and correct to the best of my knowledge and are made in good faith.													
AFFILIATION <i>Western Weather Consultants</i>				NAME OF REPORTING PERSON <i>Mike Hjermstad</i>									
STREET ADDRESS <i>P.O. Box 58</i>				SIGNATURE <i>Mike Hjermstad</i>									
CITY <i>Durango</i> STATE <i>CO</i> ZIP CODE <i>81302</i>				OFFICIAL TITLE <i>Asst. Manager</i>									
				DATE <i>6-2-13</i>									

Program Sponsors for the Central Colorado Mountain River Basin Program

Denver Water Department
1600 West 12th Avenue
Denver, CO 80204

Colorado Springs Utilities
215 Nichols Boulevard
Colorado Springs, CO 80907

Upper Arkansas Water Conservancy District
339 East Hwy 50
Salida, CO 81201

Colorado Water Conservation Board
1313 Sherman St., Room 721
Denver, CO 80203 303-866-4807

Winter Park Resort
P.O. Box 36
Winter Park, Colorado 80482

Dundee Resort Development
P. O. Box 5808
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Breckenridge. Colorado 80424

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220 Water Avenue
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Southeastern Colorado Water Conservancy District
31717 United Avenue
Pueblo, CO 81001

Aurora Water
15151 East Alameda Parkway
Aurora, CO 80012-1553

Pueblo Board of Water Works
319 West Fourth Street
Pueblo, CO 81003

Twin Lakes Reservoir & Canal Company
331 Main Street
Ordway, CO 81063-1302